

Appl. No. : 10/706,660
Filed : November 12, 2003

Amendments to the Claims:

As indicated below, Claim 1 has been amended and Claims 24-31 have been added. This listing of claims replaces all previous versions of the claims.

Listing of Claims:

1. **(Currently amended)** A multilumen catheter, comprising:
an elongate, flexible tubular body, having a proximal end and a distal end;
a first lumen extending throughout the length of the tubular body, between the proximal end and the distal end, said first lumen having an open proximal access port for receiving a guidewire and an open distal access port through which said guidewire can extend; and
a second lumen extending between a proximal port and a distal port;
wherein at least the distal port is spaced proximally apart from the distal end and the first and second lumens having a diameter of at least about 0.039 inches.
2. **(Original)** A multilumen catheter as in Claim 1, further comprising an axially extending tear line in the wall defining the second lumen.
3. **(Original)** A multilumen catheter as in Claim 2, wherein the tear line comprises a perforation line.
4. **(Original)** A multilumen catheter as in Claim 2, wherein the second lumen is defined within a wall, and the tear line comprises a reduced thickness in the wall.
5. **(Original)** A multilumen catheter as in Claim 4, wherein the tear line comprises an axially extending recess in the wall.
6. **(Original)** A multilumen catheter as in Claim 5, wherein the recess extends radially outwardly from an interior surface of the wall.
7. **(Original)** A multilumen catheter as in Claim 1, wherein the distal port is spaced proximally apart from the distal end by at least about 2 cm.
8. **(Original)** A multilumen catheter as in Claim 1, further comprising an axially extending slit in the wall of the second lumen.

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9. **(Original)** A multilumen catheter as in Claim 1, wherein the length of the second lumen is within the range of from about 20% to about 60% of the length of the catheter.

10-20. **(Canceled)**

21. **(Previously presented)** A multilumen catheter as in Claim 1, wherein said distal port is positioned within the range of about 15 centimeters to about 20 centimeters from the open distal access port.

22. **(Previously presented)** A multilumen catheter as in Claim 1, wherein said proximal port is positioned within the range of about 40 centimeters to 60 centimeters from the open distal access port.

23. **(Previously presented)** A multilumen catheter as in Claim 1, wherein said proximal port is positioned within the range of about 30 centimeters to 40 centimeters from the open proximal access port.

24. **(New)** A multilumen catheter, comprising:

an elongate, flexible tubular body, having a proximal end and a distal end;

a first lumen extending throughout the length of the tubular body, between the proximal end and the distal end, said first lumen having an open proximal access port for receiving a guidewire and an open distal access port through which said guidewire can extend; and

a second lumen extending between a proximal port and a distal port;

wherein at least the distal port is spaced proximally apart from the distal end and wherein the catheter includes a proximal extension of the second lumen and a distal extension of the second lumen, the proximal and distal extensions being occluded from a remaining portion of the second lumen at the proximal and distal ports.

25. **(New)** A multilumen catheter as in Claim 24, wherein said tubular body (26) includes a reinforcing element for reinforcing the first lumen.

26. **(New)** A multilumen catheter as in Claim 25, wherein said reinforcing element is a braided wire.

27. **(New)** A multilumen catheter as in Claim 24, wherein between said distal port and said distal end there is no expandable member.

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28. (New) A multilumen catheter as in Claim 24, wherein said catheter has a substantially constant first diameter between said proximal port and said distal port, which is substantially equal to the diameter of a distal portion of the catheter adjacent said distal port.

29. (New) A multilumen catheter as in Claim 24, wherein the proximal and distal extensions are occluded by glue plugs.

30. (New) A multilumen catheter as in Claim 24, wherein the catheter only includes two lumens.

31. (New) A multilumen catheter as in Claim 24, wherein the axis of the first lumen and the axis of the second lumen are centered about a common plane extending through the catheter.

32 (New) A multilumen catheter as in Claim 31, further comprising an axially extending slit in the wall of the second lumen that extends along the common plane.